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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NLE1 Antibody Picoband®

Catalog Number: A09529-2

About NLE1

Notchless protein homolog 1 is a protein that in humans is encoded by the NLE1 gene. Predicted to be involved in Notch signaling pathway and ribosomal large subunit assembly. Predicted to act upstream of or within several processes, including chordate embryonic development; hematopoietic stem cell homeostasis; and regulation of signal transduction. Located in nucleolus and nucleoplasm.

Overview

Product Name	Anti-NLE1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NLE1 Antibody Picoband® catalog # A09529-2. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9NVX2

Technical Details

Immunogen	E.coli-derived human NLE1 recombinant protein (Position: M1-R385). Human NLE1 shares 94.3% amino acid (aa) sequence identity with mouse NLE1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human

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	ELISA, 0.1-0.5 ug/ml

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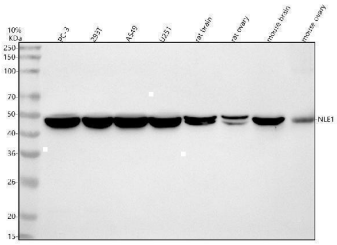
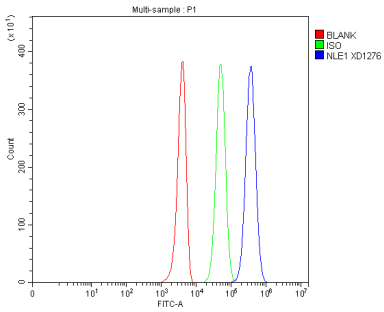
Anti-NLE1 Antibody Picoband® (A09529-2) Images



Western blot analysis of NLE1 using anti-NLE1 antibody (A09529-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human PC-3 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat ovary tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse ovary tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NLE1 antigen affinity purified polyclonal antibody (A09529-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NLE1 at approximately 45 kDa. The expected band size for NLE1 is at 53 kDa.



Flow Cytometry analysis of 293T cells using anti-NLE1 antibody (A09529-2). Overlay histogram showing 293T cells stained with A09529-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NLE1 Antibody (A09529-2, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.